Application No. 10/743,625 Amendment dated May 20, 2010 Reply to Office Action of November 20, 2009

AMENDMENTS TO THE CLAIMS

A complete listing of claims is presented below with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing. Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1-18. (Canceled)

19. (Currently Amended) A method for treating asthma comprising:

administering to a subject <u>having asthma</u> an immunostimulatory oligonucleotide comprising an immunostimulatory motif comprising a 5'-cytosine-guanine-3', wherein the cytosine of the 5'-cytosine-guanine-3' is unmethylated, wherein the oligonucleotide has a length of 8 to 100 nucleotides, wherein at least one internucleotide linkage in the oligonucleotide has a phosphate backbone modification, wherein the immunostimulatory oligonucleotide is administered without an allergen and wherein the immunostimulatory oligonucleotide is administered in an amount effective to treat asthma.

- 20. (Previously Presented) The method of claim 19, wherein the subject is selected from the group consisting of human, dog, cat, horse, and cow.
- 21. (Previously Presented) The method of claim 19, wherein the immunostimulatory motif comprises a CG flanked by two 5' purines and two 3' pyrimidines.
- 22. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif comprises more than one CG dinucleotide.
- 23. (Previously Presented) The method of claim 22, wherein the immunostimulatory motif comprises AACGCTCG.

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24. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif comprises the sequence 5'-AACGTT-3'.

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- 25. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif comprises a nucleotide sequence selected from the group consisting of AGCGTC, GACGTT, GACGTT, and AGCGTT.
- 26. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif comprises a nucleotide sequence comprising:

wherein X_1X_2 is selected from the group consisting of GpG, GpA, and ApA, and X_3X_4 is selected from the group consisting of TpT and CpT.

27. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif comprises a nucleotide sequence comprising:

wherein X_1 is selected from the group consisting of G and A, and X_2 is selected from the group consisting of T and C.

- 28. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is administered by injection.
- 29. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is administered to skin by transdermal route.
- 30. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is administered by a route that allows the oligonucleotide to be taken up by the appropriate target cells.

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- 31. (Previously Presented) The method of claim 30, wherein the target cells are in the airway of the subject.
- 32. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is linked to a molecule.
- 33. (Previously Presented) The method of claim 32, wherein the molecule is a targeting moiety.
- 34. (Previously Presented) The method of claim 32, wherein the molecule interacts with a target cell surface.
- 35. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is linked to a target cell specific binding agent.
- 36. (Previously Presented) The method of claim 19, further comprising administering an immunotherapeutic agent.
- 37. (Previously Presented) The method of claim 19, wherein eosinophil accumulation in lung tissue is reduced.
- 38. (Previously Presented) The method of claim 19, wherein inflammation is prevented.
- 39. (Previously Presented) The method of claim 19, wherein the subject is a human.